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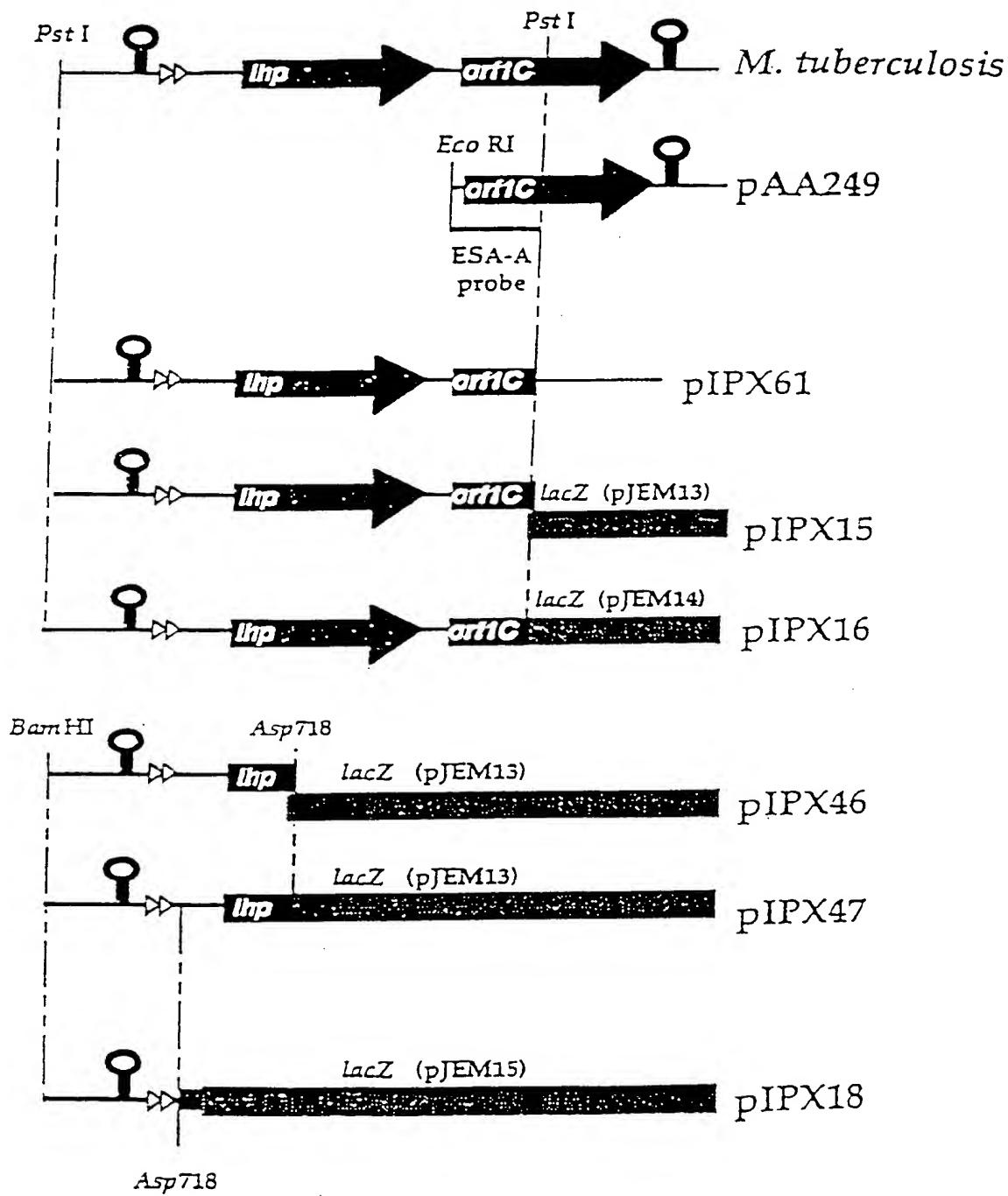


FIGURE 2

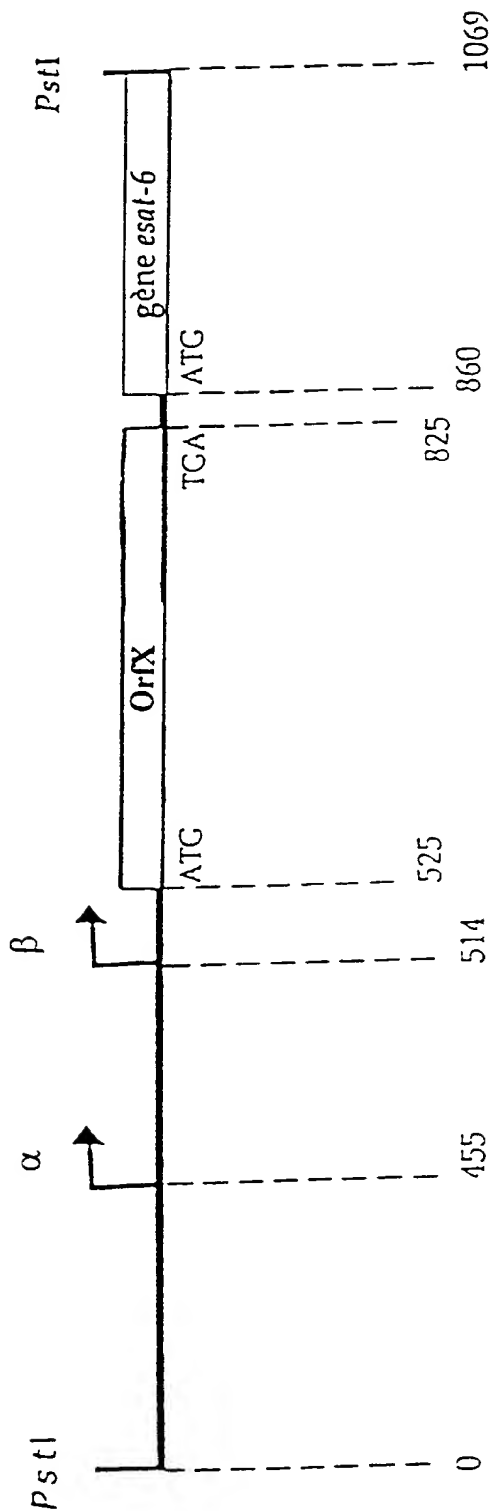


FIGURE 3

Fig. 4A

10 30 50 70
PstI
CTGCAGCAGGTGACGTCGTTGTTTCAGCCAGGTGGCGGCACCGGCGGCGGCAACCCAGCCGACGAGGAAGCCGCGCAGAT
90 110 130 150
GGGCCTGCTCGGCACCAGTCCGCTGTCTGAACCATCCGCTGGCTGGTGGATCAGGCCCCAGCGCGGGCGCGGGCCTGCTGC
170 190 210 230
GCGCGGAGTTCGCTACCTGGCGCAGGTGGGTCTGTTGACCCCGCACGCGCGCTGATGTCTCAGCTGATCGAAAAGCCGGTTGCC
250 270 290 310
CCCTCGGTGATGCCGGCGGCTGTTGCCGGATCGTCGGTGACGGGTGGCGCCGCTCCGGTGGGTCCGGGAGCGATGGGCCA
330 350 370 390
GGGTTTCGCAATCCGGCGGCTCCACCAGCCCGGGTCTGGTTCGCGCCGGCACCGCTCGCGCAGGAGCGTGAAGAAGACGACG
410 430 450 470
AGGACGACTGGGACGAAGAGGACGACTGGTGAGCTCCCGTAATGACAACAGACTTCCCGGCCACCCGGGCGGGAAGACTT
490 510 530 550
GCCAACATTTTGGCGAGGAAGGTAAAGAGAGAGAGTAGTCCAGCATGGCAGAGATGAAGACCGATGCCGCTACCCCTCGGG
570 590 610 630
CAGGAGGCAGGTAATTTTCGAGCGGATCTCCGGCGACCTGAAAACCCAGATCGACCAGGTGGAGTCGACGGCAGGTTCTGT
Q E A G N F E R I S G D L K T Q I D Q V E S T A G S L
650 670 690 710
GCAGGGCCAGTGGCGCGGCGCGGCGGGGACGGCCGCGCCAGGCCGCGGTGGTTCGCTTCCAAGAAGCAGCCAATAAGCAGA
Q G Q W R G A A G T A A Q A A V V R F Q E A A N K Q K
730 750 770 790
AGCAGGAACTCGACGAGATCTCGACGAATATTTCGTGAGGCCGCGCTCCAACTACTCGAGGGCCGACGAGGAGCAGCAGCAG
Q E L D E I S T N I R Q A G V Q Y S R A D E E Q Q Q
810 830 850
CGCGTGTCTTCGCAATGGGCTTCTGACCCGCTAATACGAAAAGAAACGGAGCAAAAACATGACAGAG.....
A L S S Q M G F * M T E
+1 Mtb.
+1 Ms
RBS
lhp
esat-6

Fig. 4B

Mtb CFP-10 MAEMKTDAATLGQEAGNFERISGDLKTQIDQVESTAGSLQGQWRGAAGTA
 ||||| :|||.||:|:|.||:|. : : |:|.:|:|. | |.||:|
 Mlep L45 MAEMITEAAILTQQAAQFDQIASGLSQERNFVDSIGQSFQNTWEGQAASA

Mtb CFP-10 AQAAVVRFQEAAANKQKQELDEISTNIRQAGVQYSRADEEQQQALSSQMGE
 | :|:|.||:| | ..| .:|:|. | ..:..|..|.:|:|. | | |.||.
 Mlep L45 ALGALGRFDEAMQDQIRQLESIVDKLNRSGGNYTKTDDEANQLLSSKMN

Fig. 5A

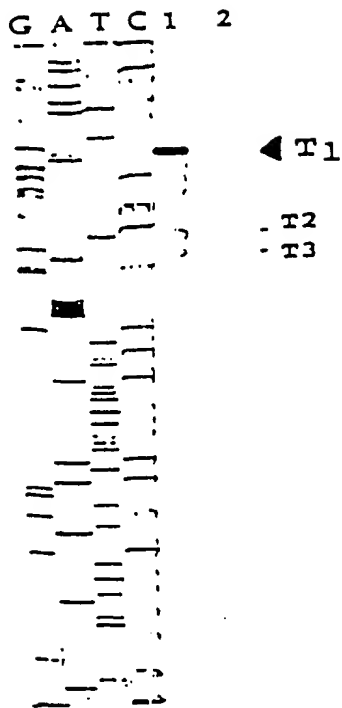


Fig. 5C

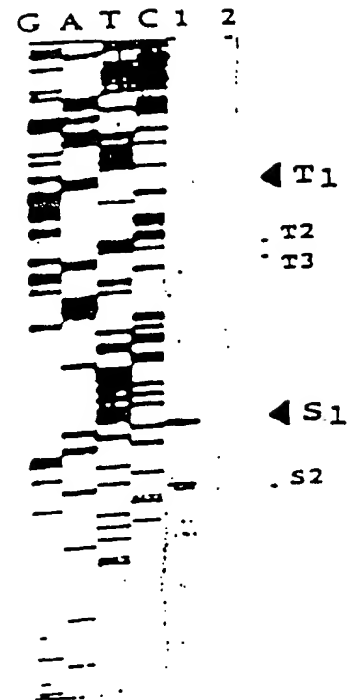
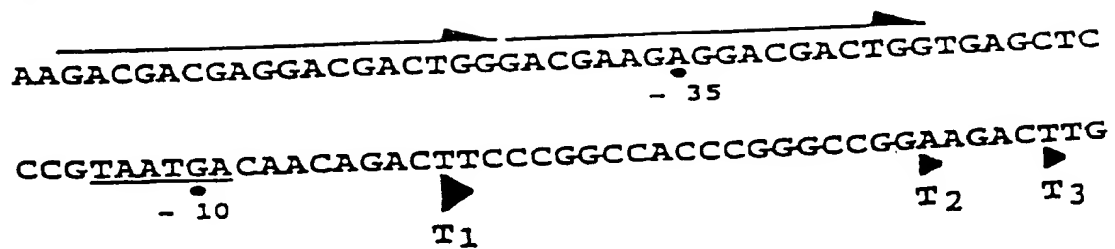


Fig. 5B



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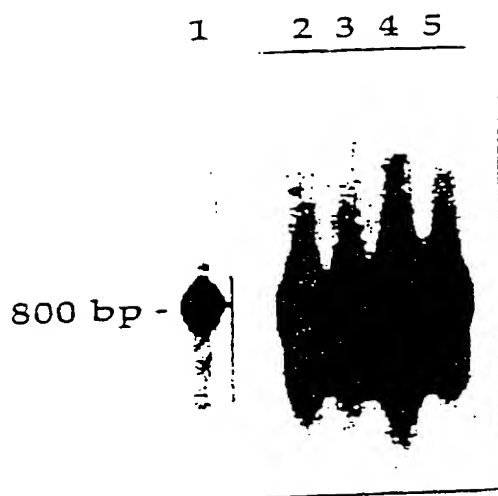
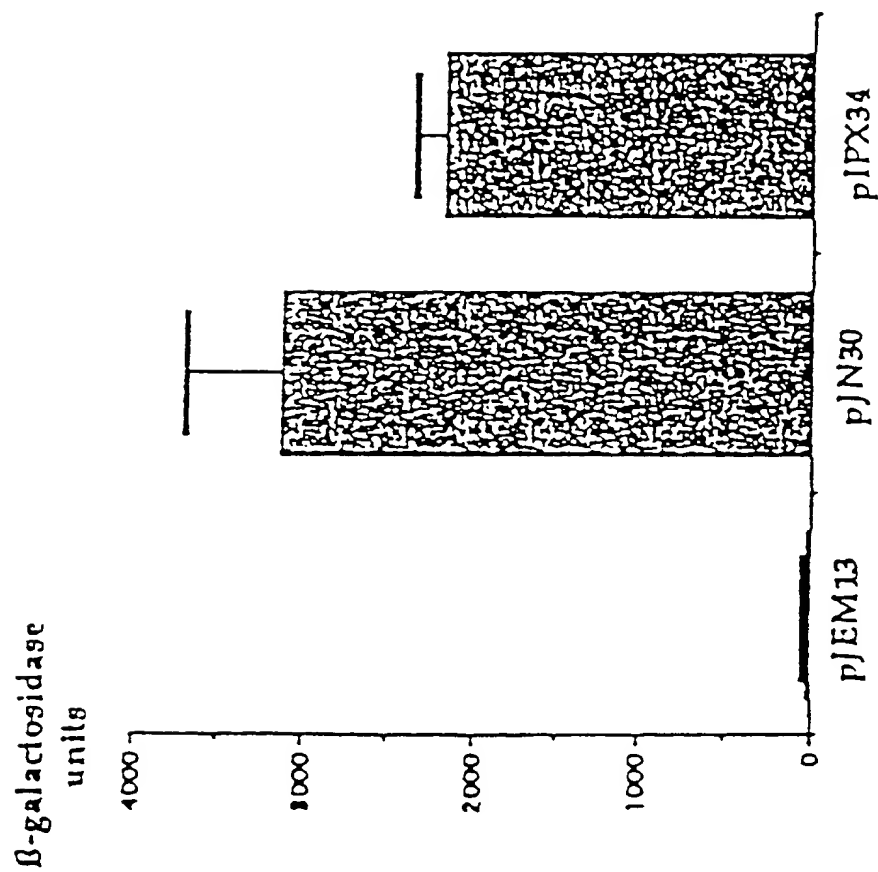
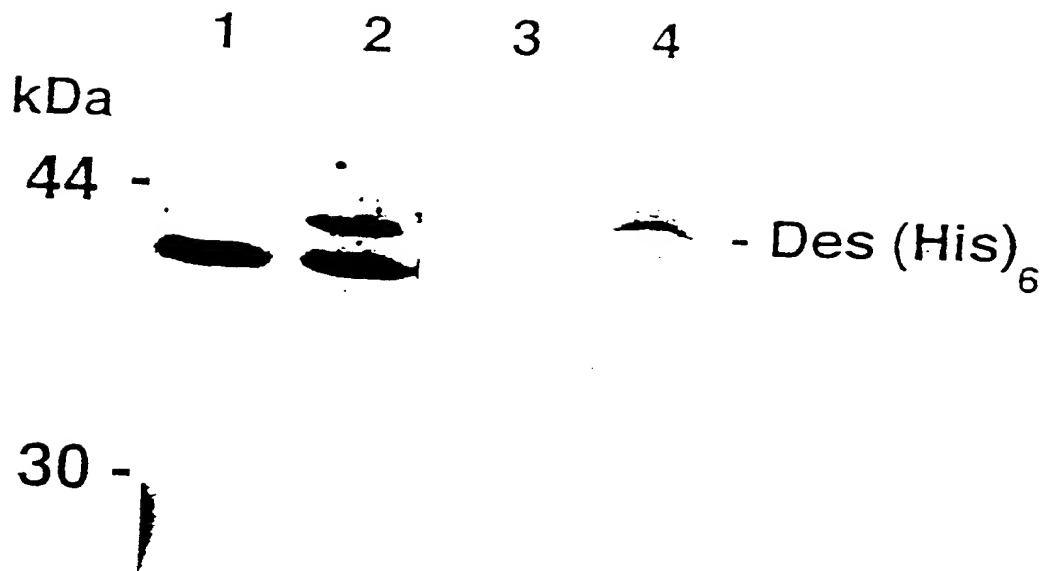


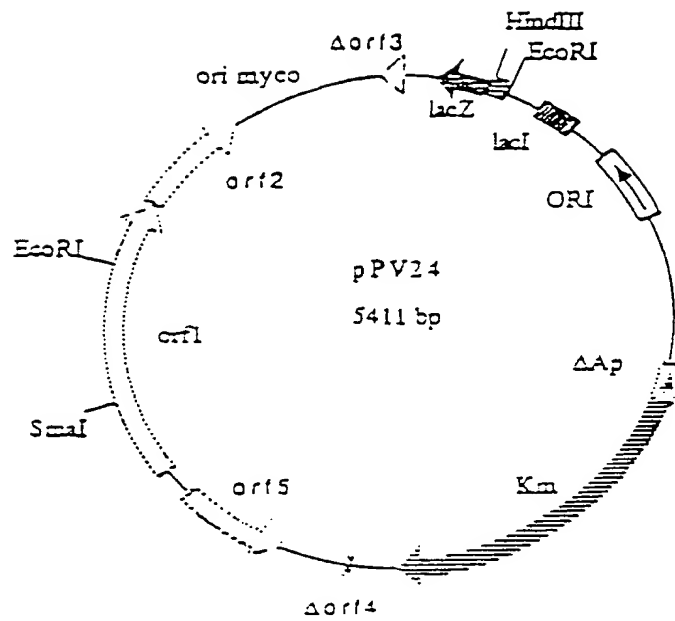
FIGURE 6



FIGURE 7

FIGURE 8

FIGURE 9



$$\begin{array}{ccccccc}
 \text{EcoRI} & & & & \text{XbaI} & & \text{HindIII} \\
 \hline
 5' \text{---GAATTCGAGCTCGGTACCCGGGGATCCTCTAGAGTCGACCTGCAGCCATGCAAGCTT---} 3' \\
 \hline
 & \text{KpnI} & & \text{BamHI} & & \text{PstI} &
 \end{array}$$

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FIGURE 10

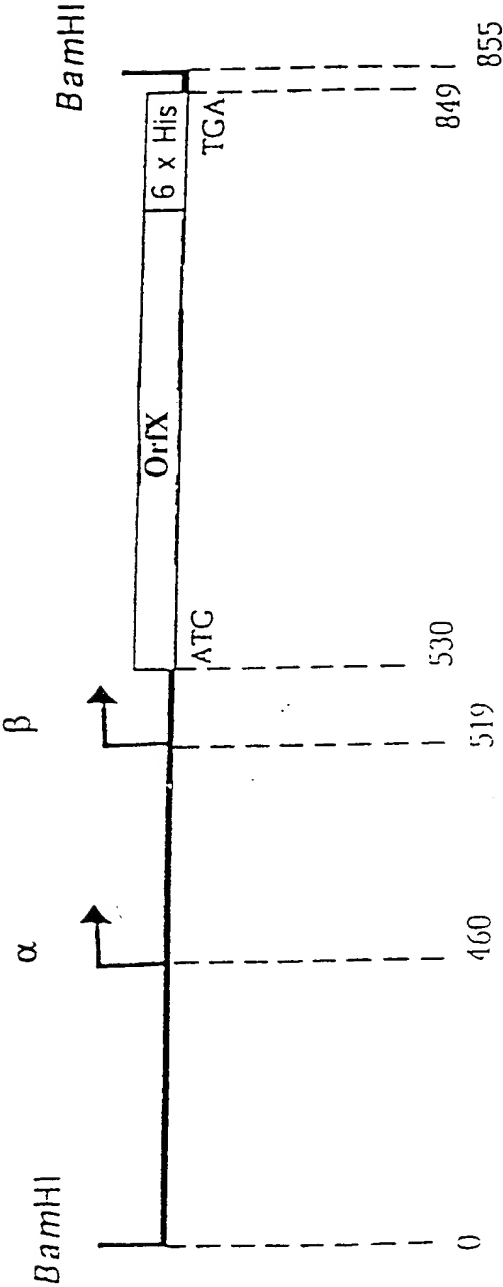


FIGURE 11

Fig. 12B

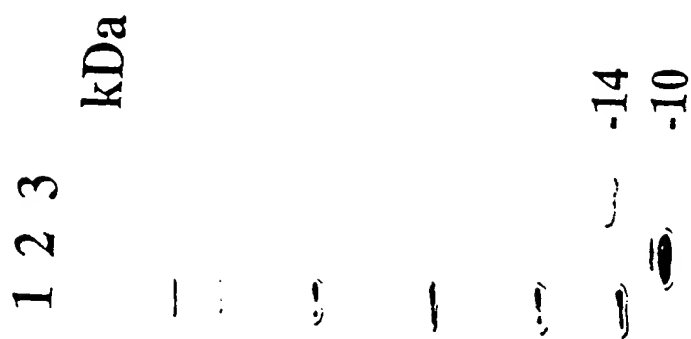
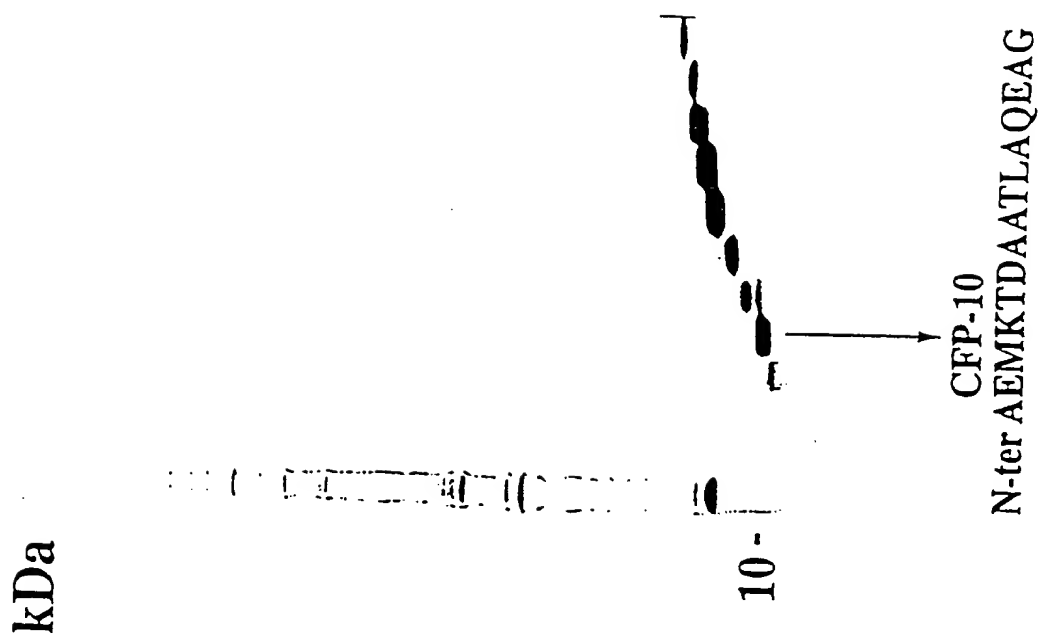


Fig. 12A



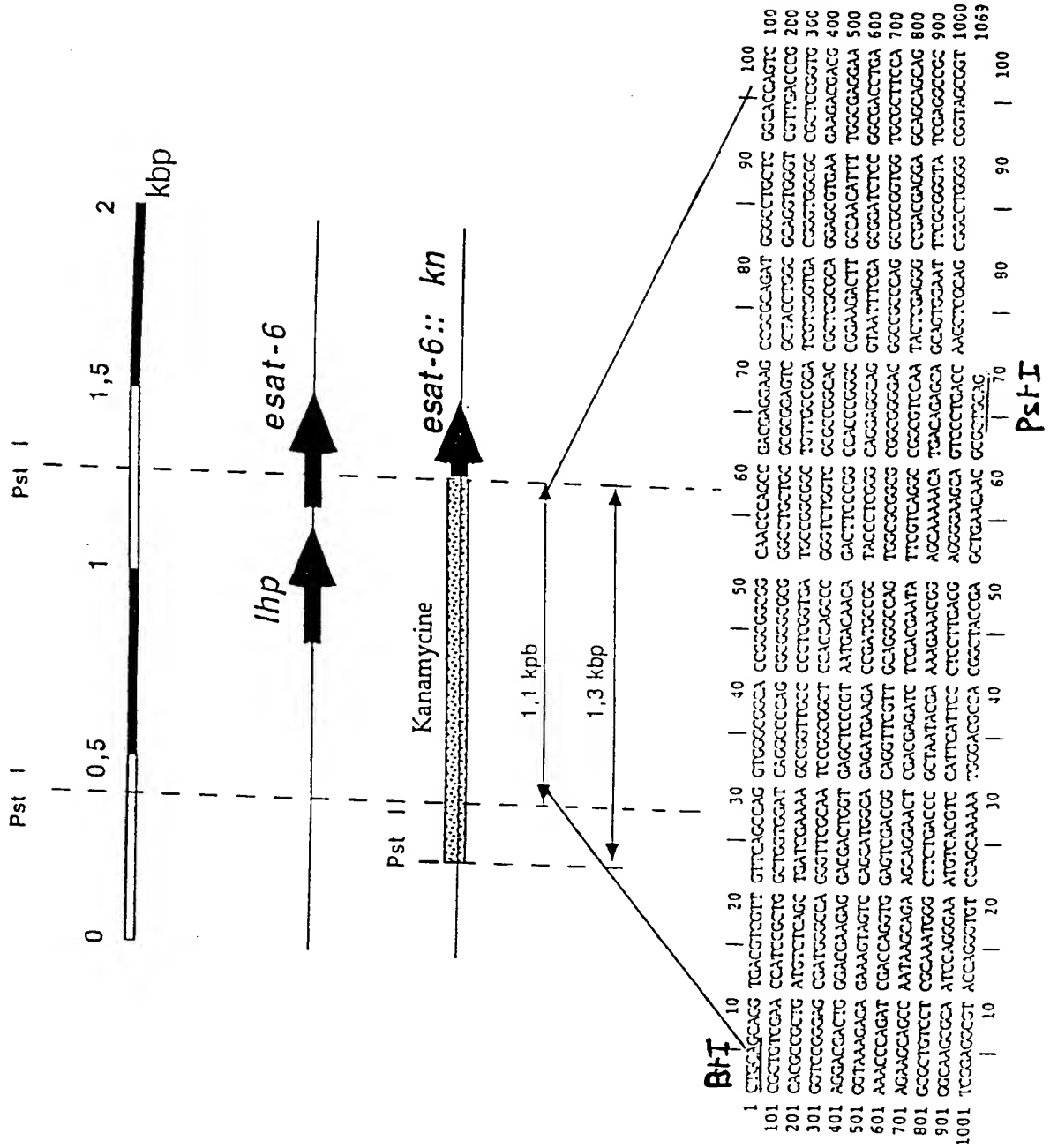


FIGURE 13